

WHAT IS CLAIMED IS:

1. A system for automatically generating a continuous developed still image from a video image of an inner wall of a tubular object photographed while moving in the axial direction of the tubular object, the system comprising:

digital image data capturing means for capturing video image data as digital image data from a recording medium having recorded thereon the video image data;

pipe projection converting means for creating a developed diagram in the circumferential direction of the inner wall of the tubular object with respect to each of frames of the captured digital image data;

mosaic processing means for subjecting the developed diagram of each of the frames created by the pipe projection converting means to mosaic processing, to convert it into continuous and seamless developed still image data;

image data compressing means for compressing the developed still image data; and

compressed image data storing means for storing the compressed image data obtained by compressing the developed still image data;

wherein the mosaic processing means is of a type for cutting out and stitching strips of the developed diagram of each of the frames.

2. A system for automatically generating a continuous developed still image from a video image of an inner wall

of a tubular object photographed while moving in the axial direction of the tubular object, the system comprising:

digital image data capturing means for capturing video image data as digital image data from a recording
5 medium having recorded thereon the video image data;

pipe projection converting means for creating a developed diagram in the circumferential direction of the inner wall of the tubular object with respect to each of frames of the captured digital image data;

10 mosaic processing means for subjecting the developed diagram of each of the frames created by the pipe projection converting means to mosaic processing, to convert it into continuous and seamless developed still image data;

15 image data compressing means for compressing the developed still image data;

compressed image data storing means for storing the compressed image data obtained by compressing the developed still image data; and

20 data registering means for storing the compressed image data in the compressed image data storing means, to generate a database;

wherein the mosaic processing means is of a type for cutting out and stitching strips of the developed diagram
25 of each of the frames.

3. A system for automatically generating a continuous developed still image from a video image of an inner wall

of a tubular object according to claim 1, wherein the tubular object is a tunnel.

4. A system for automatically generating a continuous developed still image from a video image of an inner wall of a tubular object according to claim 2, wherein the tubular object is a tunnel.

5. A system for automatically generating a continuous developed still image from a video image of an inner wall of a tubular object according to claim 1, wherein the tubular object is a pipe.

6. A system for automatically generating a continuous developed still image from a video image of an inner wall of a tubular object according to claim 2, wherein the tubular object is a pipe.

7. A system for automatically generating a continuous developed still image from a video image of an inner wall of a tubular object according to claim 1, wherein the tubular object is a tubular organ of a human being or an animal.

8. A system for automatically generating a continuous developed still image from a video image of an inner wall of a tubular object according to claim 2, wherein the tubular object is a tubular organ of a human being or an animal.

25